

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 B01D71/02 B01D53/22 B01J23/00 C01B13/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 C01B B01D B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 766 330 A (THE STANDARD OIL COMPANY) 2 April 1997 (1997-04-02)	1,3-6, 13,14, 17-23 15,16
Y	page 17, line 19 - line 27; claims page 13, line 4 - line 23	
A	DATABASE WPI Week 200344 Derwent Publications Ltd., London, GB; AN 2003-457993 XP002288952 & CN 1 403 196 A (HUANG Z) 19 March 2003 (2003-03-19) abstract	1,3,13, 14
A	EP 0 908 227 A (THE STANDARD OIL COMPANY) 14 April 1999 (1999-04-14) claims	1,3,13, 14
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Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the international search

20 January 2005

Date of mailing of the international search report

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## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/FR2004/002163

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 663 231 A (AIR PRODUCTS AND CHEMICALS, INC.) 19 July 1995 (1995-07-19) cited in the application claims	1,3,4, 13,14
A	HAIHUI WANG ET AL: CHEM. COMMUN., 2002, page 1468-1469, XP001166951 cited in the application abstract	3-8
A	Z.SHAO ET AL: ""investigation of the permeation behavior and stability of a Ba0.5Sr0.5Co0.8Fe0.0.203(delta) oxygen membrane"" JOURNAL OF MEMBRANE SCIENCE, vol. 172, no. 1-2, 2000, page 177-188, XP001166952 AMSTERDAM, NL cited in the application abstract	3-8
Y	HIROMICHI SAKAMOTO ET AL.: SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS, 20 January 2003 (2003-01-20), pages 69-76, XP008041732 cited in the application the whole document	15
Y	J.L. ROUSSET ET AL.: PHYSICAL REVIEW B, vol. 58, no. 4, 15 July 1998 (1998-07-15), pages 2150-2156, XP008041798 cited in the application the whole document	16

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